Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -IV EXAMINATION -SUMMER-2019

	U	Voue: 4649301 Date: 14-05-2019	9
Ti	-	Name: Computer Networking 0.30 am to 1.00 pm Total Marks: 7	0
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a)	Explain OSI reference model with brief functionality of each layer.	07
	(b)	Write the answer in brief.	•
		Explain Local Area Network. Differentiate approximate dead and approximate a province.	04
		2. Differentiate connection-oriented and connectionless services.	03
Q.2	(a)	Explain coaxial cable with diagram.	07
	(b)	Write the answer in brief.	
		1. Explain ARPANET.	04
		2. Compare full-duplex and half-duplex communication.	03
	(b)	Write the answer in brief.	
	(D)	Differentiate multimode and single mode fiber.	04
		 Compare fiber optics and copper wire. 	03
Ω_{2}	(a)	•. (C)	
Q.3	(a) (b)	Explain Pass band transmission. Write the answer in brief.	07
	(0)	1. How OFDM is better compare to FDM.	04
		2. Calculate CRC for frame 1101011111 using Generator 10011	03
		OR	
Q.3	(a)	What is framing techniques? Explain Byte stuffing with appropriate example.	07
	(b)	Write the answer in brief.	
		1. What is piggybacking?	04
		2. What is sliding window? What is the relevance of sending window?	03
Q.4	(a)	Explain carrier sense multiple access protocol.	07
	(b)	Write the answer in brief.	
		1. Draw and explain 802.11 protocol stacks.	04
		2. Define term TSAP and NSAP.	03
		OR	
Q.4	(a)	Explain hidden terminal and exposed terminal problem. How RTS and CTS help	07
	a >	to resolve the problem?	
	(b)	Write the answer in brief. 1. Explain store and forward posket switching.	Ω
		 Explain store and forward packet switching. Explain optimality principle. 	04 03

				vector rout	ing with count-to-infir	nty problem.	
	(b)	Write	the answer	r in brief.			
		1.	Compare	virtual circu	it and datagram netwo	orks.	
		2.	Explain 7	ΓCP connecti	ion establishment.		
					OR		
Q.5	(a)				ord? Explain DNS reso	ource record type	es.
	(b)		the answer				
		1.		emote proced	dure call? Write the ste	ps to make remo	te procedure
			call.				
		2.			e acknowledgement?	Explain with	appropriate
			example.				

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